Claims:

1. A composite material with a composition gradient of calcium phosphate in a biodegradable polymeric material.

2. The composite material according to claim 1, wherein the biodegradable polymeric material is at least one member selected from among glycosaminoglycan, collagen, and a composite thereof.

3. The composite material according to claim 1, wherein the biodegradable polymeric material is a crosslinked product of glycosaminoglycan and collagen.

4. A scaffold for cell differentiation and proliferation consisting of the composite material according to any of claims 1 to 3.

5. The scaffold according to claim 4, which can effectively regenerate a hard/soft tissue interface.

6. An implant for hard/soft tissue filling comprising the composite material according to any of claims 1 to 3.

7. The implant according to claim 6, which further comprises cells.

8 A method for producing a composite material with a composition gradient of calcium phosphate in a biodegradable polymeric material by alternately soaking one side or part of the biodegradable polymeric material in a calcium ion-containing solution and the other side or part in a phosphate ion-containing solution.